# **BookletChart**

# Chesapeake Bay - Cape Charles to

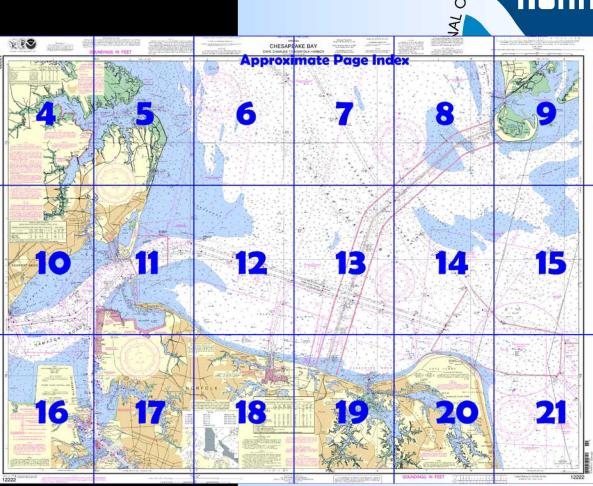
Norfolk Harbor

(NOAA Chart 12222)

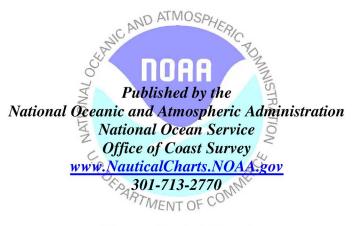


A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ☑ Complete, reduced scale nautical chart
- Print at home for free
- ☑ Up to date with all Notices to Mariners
- ☑ United States Coast Pilot excerpts
- Compiled by NOAA, the nation's chartmaker.



Home Edition (not for sale)



### **What are Nautical Charts?**

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

### What is a BookletChart<sup>™</sup>?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <a href="http://www.NauticalCharts.NOAA.gov">http://www.NauticalCharts.NOAA.gov</a>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

### **Notice to Mariners Correction Status**

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



# [Coast Pilot 3, Chapter 9 excerpts] (21) Cape Henry Light (36°55.6'N.,

76°00.4'W.), 164 feet above the water, is shown from an octagonal, pyramidal tower, upper and lower half of each face alternately black and white, on the beach near the turn of the cape.

(26) **Chesapeake Bay Bridge** extends from Cape Charles to a point 6 miles westward of Cape Henry. Channel buoys, lights, daybeacons and fog signals mark the openings at Chesapeake and Thimble Shoal

Channels. At night the floodlighted tunnel houses are more prominent than the lights marking the channels.

- (41) The current velocity is 1.0 knot on the flood and 1.5 knots on the ebb in Chesapeake Bay Entrance.
- (52) Thimble Shoal Channel is a **Regulated Navigation Area** and draft limitations apply. A vessel drawing less than 25 feet may not enter the

channel, unless the vessel is crossing the channel.

- (53) **Lynnhaven Roads** is used as an anchorage. The dumping ground in the western part has shoals and obstructions with depths as little as 11 feet; elsewhere depths are 20 to 28 feet.
- (54) There are two small craft openings in the Chesapeake Bay Bridge-Tunnel south of Thimble Shoal Channel. Each span has a clearance of 21 feet.
- (55) **Lynnhaven Inlet**. In 2000, the controlling depth in the entrance channel was 6½ feet. The inlet is marked by lights. **Lynnhaven Bay** has a turning basin south of the highway bridge over the inlet. The bay has depths of 1 to 10 ft.
- (56) A dredged channel leads eastward from the north end of the large basin, and another dredged channel leads eastward from the south end; the southerly channel is marked by a light and daybeacons. The north and south channels converge near Daybeacon 6 and continue to **Broad Bay**. The channel to Broad Bay is marked by daybeacons, and a light at the east end. In 1998, the depth was 5½ feet (7½ feet at midchannel) in the northerly channel, thence 7 to 10 feet in the basin with lesser depths of 3½ to 6½ feet in the NW corner, thence 7½ feet (9 feet at midchannel) in the southerly channel to Daybeacon 6; thence a depth of 8 feet was in the channel eastward to Broad Bay.
- (58) An alternate route to Broad Bay is through **Long Creek**, which branches northeastward from the channel in the vicinity of Daybeacon BL. In 1991, the depths were 5½ feet (7 feet at midchannel) from Daybeacon BL to Great Neck Road bridge; thence 8 feet to Broad Bay. (59) Depths in Broad Bay are 6 to 7 feet. A marked channel leads southeastward through **The Narrows**. In 1998, the controlling depth was 6 feet.
- (60) Small-craft facilities are in Lynnhaven Inlet and both forks of Linkhorn Bay.
- (62) A channel in Little Creek leads to a basin off the railroad terminal. In 1998, the depth was 20 feet. The channel is marked by a **177°30'** lighted entrance range and lights. **Little Creek Coast Guard Station** is east of the railroad terminal.
- (63) **Fishermans Cove** has fuel and berthing facilities. The **speed limit** is 5 knots.
- (64) Naval **danger zones** and **restricted areas** extend northward from Little Creek to the edge of Thimble Shoal Channel.

### [Coast Pilot 3, Chapter 11 excerpts]

- (7) **Horseshoe** is a shoal that extends several miles out from between Old Point Comfort and Back River. The eastern half has depths of 13 to 18 feet; the western half, 6 to 11 feet. Local vessels drawing 7 feet or less use lanes through the fishtraps on Horseshoe when navigating between Hampton Roads and York River or Mobjack Bay. The tidal current velocity is 0.5 knot over the Horseshoe and is rotary, turning clockwise.

  (8) A naval **restricted area** extends eastward and southward of Old
- Point Comfort, and a **danger zone** of the **Fort Monroe** firing range extends to seaward from a point 1.5 miles northward of the point.
- (10) **Back River**. A firing and bombing **danger zone** is north of the entrance to Back River. The approach from southeast through a lane in the fishtraps is marked.
- (11) 2 miles above the mouth, Back River divides into **Northwest** and **Southwest Branches,** which have depths of 2 to 5 feet. In 1979, the marked channel 3 miles from the mouth of the river to the Langley fuel pier had a depth of 12 feet. In 1982, shoaling to 3 feet was on the south side of the channel 150 yards east-northeast of Light 9. In 1985, a bare shoal was 60 feet north of Light 9. The Langley Yacht Club, south of the fuel pier, has gasoline and supplies; the depth in the basin is 4 ft.
- (13) A marina on the south side of Back River, east of **Windmill Point** has gasoline, diesel fuel, and supplies. The depth is 6½ feet.
- (14) **Harris River** has depths of 6 feet in a marked channel that leads to a marina inside **Stony Point**. Supplies, gasoline, diesel fuel, and berths are available.
  - (16) The highway and rail bridges over Southwest Branch above Willoughby Point, have a clearance of 6 feet.

NOTE B HAMPTON ROADS TUNNEL APPROACH SPANS HOR CL 45 FT VERT CL 10 FT

Corrected through NM Sep. 5/09 Corrected through LNM Sep. 1/09

### HEIGHTS

Heights in feet above Mean High Water

Mercator Projection Scale 1:40,000 at Lat. 37° 00'

North American Datum of 1983 (World Geodetic System 1984)

SOUNDINGS IN FEET AT MEAN LOWER LOW WATER

NOTE I HE ARI navigating in Little Creek Harbor due to frequent and unannounced naval diving operations.

### SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 3 for important supplemental information.

### THE NARROWS

A depth of 6 feet for a width of 90 feet was available in the improved channel through The Narrows.

### CAUTION

Limitations on the use of radio signals as Limitations on the use of radio signals as adds to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 17. Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:

(Accurate location) o(Approximate location)

PLANE COORDINATE GRID (based on NAD 1927)
The Virginia State Grid (South Zone) is indicated on this chart at 20,000 foot intervals thus: The last three digits are omitted.

For Symbols and Abbreviations see Chart No. 1

### LOCAL MAGNETIC DISTURBANCE

Differences of as much as 6° from the normal variation have been observed 3 to 17 nautical miles offshore from Cape Henry to Currituck Beach Light.

### AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

### WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

### CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

### NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio station listed below provides continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Norfolk, VA

KHB-37

162.550 MHz

### CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

NOTE F

MONITOR-MERRIMAC MEMORIAL BRIDGE-TUNNEL APPROACH SPANS HOR CL 70 FT VERT CL 30 FT

### **Table of Selected Chart Notes**

### BADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

# SUBMARINE PIPELINES AND CABLES Charted submarine pipelines and submarine cables and submarine pipeline and cable areas Cable Area Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and sub become exposed. Manners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling. Covered wells may be marked by lighted or wallighted beginning the control of the unlighted buoys.

### HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1993 (NAD 83) which for charting purposes is considered equivalent to the World Geodetic System 1994 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.529\* northward and 1.221\* eastward to agree with this chart.

### POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone com-munication is impossible (33 CFR 153).

### TRAFFIC SEPARATION SCHEME

The traffic separation scheme is designed to aid in the prevention of collisions at the approaches to Chesapeake Bay and does not supersede or alter the applicable Rules of the

The RECOMMENDED routes for entering and departing from Chesapeake Bay are overprinted on this chart. The Northeast Approach is marked by a tinted magenta line centered on a line of fairway buoys which separates the courses of inbound and outbound vessels. Vessels should leave all bursue and their centered.

courses of inbound and outbound vessels. Vessels should leave all buoys on their port hand.

It is RECOMMENDED that the following ships use the Southern Approach deep-water route when bound for Chessapeake Bay from sea or to sea from Chessapeake Bay. Deep-draft ships, drafts defined as 42 feet/12.8 meters or greater in fresh water, and naval airorant carriers. Ships drawing less than 42 feet/12.8 meters may use the deep-water route when, in their master's judgment, the effects of ship characteristics, its speed, and prevailing environmental conditions may cause the draft of the ship to equal or exceed 42 feet/12.8 meters.

It is RECOMMENDED that a ship using the deep-water route: It is RECOMMENDED that a ship using the deep-water route. Announce its intention on VHF-FM channel 16 as it approach-es Chesapeake Bay Southern Approach Lighted Whistle Buoy 'CB' on the south end, or Chesapeake Bay Entrance Lighted Whistle Buoy 'CH', on the north end of the route; Avoid, as far as practicable, overtaking other ships operating in the deep-water route; Keep as near to the outer limit of the route which lies on the starboard side as is safe and practicable.

All other ships approaching the Chesapeake Bay traffic separation scheme should use the appropriate inbound or outbound traffic lane of the traffic separation scheme.

Traffic within the precautionary area may consist of vessels operating between Thimble Shoal and Chesapeake Channels and one of the established traffic lanes. Mariners are advised to exercise extreme care in navigating within this area. The normal Pilot Boarding Area is outlined by a magenta band.

### LITTLE CREEK EXCLUSION ZONE

The Little Creek Exclusion Zone is a subset of an emergency restricted area. No vessel or persons may enter this area without permission of the Commanding Officer/Officer-in-charge of the Little Creek Amphibious Base. Vessels or persons may transit other portions of the restricted area at any time, but are subject to inspections from designated law enforcement patrols.

### NOTE E

Numerous duck blinds, stakes, piles and pipes exist in the waterways of Lynnhaven Bay, Long Creek, Broad Bay and Linkhorn Bay. Submerged piles which have been located are charted but additional submerged piles may exist.

EMERGENCY RESTRICTED AREA
For the latest information regarding the regulations of any
emergency restricted area, contact the Army Corps of Engineers,
Norfolk District, Regulatory Branch at (757) 201-7653/7652.

### NOTE A

NOTE A

Navigation regulations are published in Chapter 2, U.S.
Coast Pilot 3. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the
regulations may be obtained at the Office of the Commander,
5th Coast Quard District in Portsmouth, Virginia or at the
Office of the District Engineer, Corps of Engineers in
Norfolk Virginia

Refer to charted regulation section numbers.

### LYNNHAVEN INLET TO BROAD BAY

Lynnhaven Inlet is subject to continual change. The controlling depth in the improved channel from 36°54'15.2" N = 76°05'16.2" W to Broad Bay is 4 feet for a width of 90 feet.

NOTE Z

NO-DISCHARGE ZONE, 40 CFR 140

Under the Clean Water Act, Section 312, all vessels operating within a No-Discharge Zone (NDZ) are completely prohibited from discharging any sewage, treated or untreated, into the waters. All vessels with an installed marine sanitation device (MSD) that are navigating, moored, anchored, or docked within a NDZ must have the MSD disabled to prevent the overboard discharge of sewage (treated or untreated) or install a holding tank. Regulations for the NDZ are contained in the U.S. Coast Pilot. Additional information concerning the regulations and requirements may be obtained from the Environmental Protection Agency (EPA) web site: http://www.epa.gov/owow/oceans/regulatory/vessel\_sewage/.

CAUTION

CAUTION

The Chesapeake Bay Bridge-Tunnel Complex has on several occasions suffered damage from vessels due to adverse weather conditions. Currents in excess of three knots can be expected in the area. Mariners transiting this area are urged to be particularly alter in regards to the weather situation. The National Weather Service provides 24 hour weather broadcasting on 162.55 MHz. The Local Marine Operator also transmits weather information at 0100, 0700, 1300 and 1900 local time on 2538 and 2450 kHz. Transmitting schedules are subject to change, see Notice to Mariners. Maneuvering in close proximity of the bridge-tunnel complex is discouraged.

Area is open to unrestricted surface navigation but all vessels are cautioned neither to anchor, dredge, trawl, lay cables, bottom, nor conduct any other similar type of operation because of residual danger from mines on the bottom.

Additional information can be obtained at nauticalcharts.noaa.gov

### NOTE D

Chesapeake Bay Bridge - Tunnel (Private Lights)

Trestles A & B - In each frestle section the fixed bridge opening for small craft consists of a group of 3 spans. A fixed green light marks the centerline of each span and fixed red lights mark the outermost bridge support pilling on each side of the openings.

North Channel & Fishermans Inlet Bridges - A fixed green light marks each mid-channel with fixed red lights marking channel limits.

Fixed red obstruction lights mark each pier in Trestles C and D.



### ANCHORAGE AREAS

110.168 (see note A)

mits and designations of anchorage areas are shown in magenta. see chart 12253 for additional areas not shown on this chart.



A B C D NAVAL ANCHORAGE

E COMMERCIAL EXPLOSIVES
ANCHORAGE

(E-1) EXPLOSIVES HANDLING BERTH

(G) NAVAL EXPLOSIVES ANCHORAGE

(G-1)(G-2)(G-3)(G-4) EXPLOSIVES HANDLING BERTH

ALL OTHER ANCHORAGES ARE FOR GENERAL USE ALL OTHER BERTHS ARE FOR GENERAL USE

### CAUTION

FISH TRAP AREAS AND STRUCTURES

Mariners are warned that numerous uncharted duck blinds and fishing structures, some submerged, may exist in the fish trap areas. Such structures are not charted unless known to be permanent. Regulations to assure clear passage to and through dredged and natural channels, and to established landings, are prescribed by the Corps of Engineers in the Code of Federal Regulations.

Definite limits of fish trap areas have been established in some areas, and those limits are shown thus:

Where definite limits have not been prescribed, the location of

fishing structures is restricted only by the regulations

### AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, U.S. Coast Guard, and National Geospatial-Intelligence Agency.

### SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

### NOTE S

ROULE'S
Regulations for Ocean Dumping Sites are contained in 40 CFR, Parts
220-229. Additional information concerning the regulations and requirements
for use of the sites may be obtained from the Environmental Protection
Agency (EPA). See U.S. Coast Pilots appendix for addresses of EPA offices.
Dumping subsequent to the survey dates may have reduced the depths



THE NATION'S CHARTMAKER SINCE 1807

### HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83) which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.529 northward and 1.221\* eastward to agree with this chart.

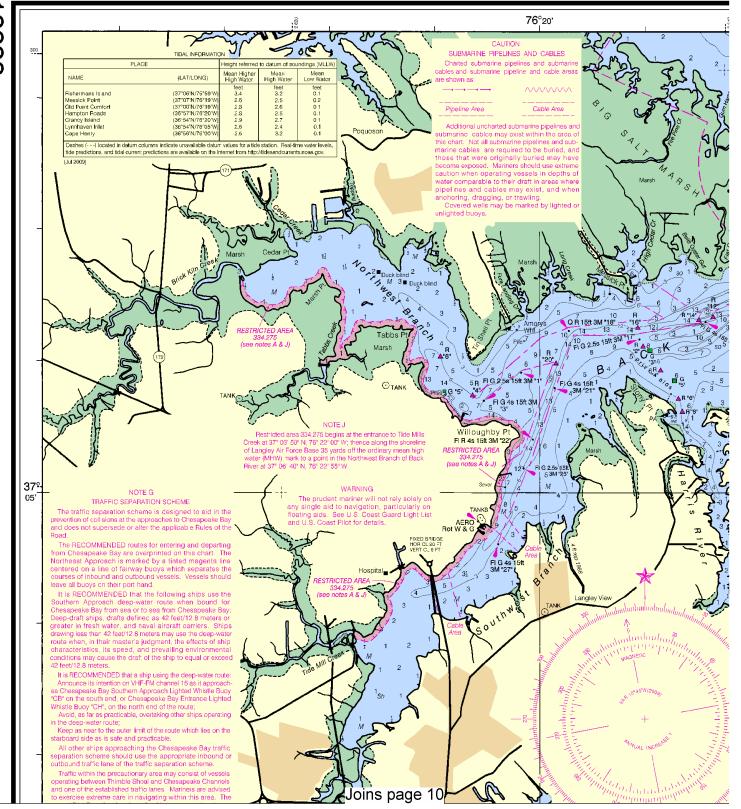
### POLLUTION REPORTS

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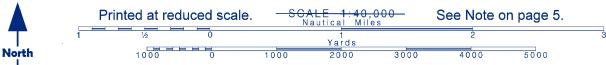
### PRINT-ON-DEMAND CHARTS

NOAA and its partner, OceanGrafix, offer this chart updated week y by NOAA for N and critical corrections. Charts are printed when ordered using Print-on-Demand t Editions are available 5-8 weeks before their release as traditional NOAA charts. As about Print-on-Demand charts or contact NOAA at 1-800-584-4683, http://Nau.help@NautloalCharts.gov, or OceanGrafix at 1-877-56CHART, http://Ocea.bite@OceanGrafix.

# SOUNDINGS IN FEET







Notices to Mariners d technology. New lask your chart agent auticalCharts.gov, eanGrafix.com. or

NOTE X

Within the 12-nautical mile Territorial Sea, established by Presidential Proclamation some Federal laws apply. The Three Naurical Mile, Etine, previously identified as the outer limit of the territorial sea, is retained as it continues to depict the jurisdictional limit of the other laws. The 9-nautical mile Natural Resource Boundary off the Gulf coast of Florida, Texas, and Puerto Rico, and the Three Nautical Mile Line elsewhere remain in most cases the inner limit of Federal fisheries jurisdiction and the outer limit of the jurisdiction of the states. The 24-nautical mile Contiguous Zone and the 200-naution mile Exclusive Economic Zone were escablished by Presidential Proclamation. Unless fixed by treaty or the U.S. Supreme Court, these maritime limits are subject to modification

For Symbols and Abbreviations see Chart No. 1

COLREGS: International Regulations for Preventing Collisions at Sea, 1972 Demarcation lines are shown thus:

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, J.S. Coast Guard, and National Geospatial-Intelligence Agency.

Joins page 11

This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:53333. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart. C

NOTE X

autical mile Territorial Sea, established by Presidential Proclamation, s apply. The Three Nautical Mile Line, previously identified as the rithorial sea, is retained as it continues to depict the jurisdictional ws. The 9-nautical mile Natural Resource Boundary off the Gulf coast and Puerto Rico, and the Three Nautical Mile Line elsewhere remain in her limit of Federal fisheries jurisdiction and the outer limit of the states. The 24-nautical mile Contiguous Zone and the 200-nautical conomic Zone were established by Presidential Proclamation. baty or the U.S. Supreme Court, these maritime limits are subject Additional information can be obtained at nauticalcharts.noaa.gov.

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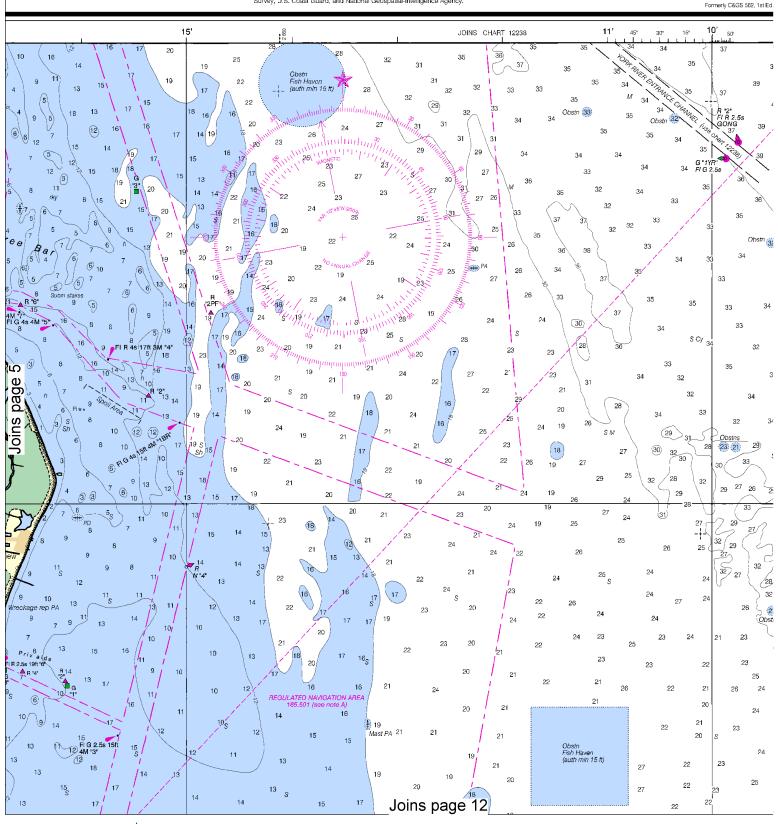
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Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, J.S. Coast Guard, and National Geospatial-Intelligence Agency.

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# **CHESAPE**

## CAPE CHARLES TO |







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# **EAKE BAY**

### NORFOLK HARBOR

d Mar 1004 KARR 550

Mercator Projection Scale 1:40,000 at Lat. 37° 00'

North American Datum of 1983 (World Geodetic System 1984)

SOUNDINGS IN FEET AT MEAN LOWER LOW WATER HEIGHTS

Heights in feet above Mear High Water

SUPPLEMENTAL INFORMATION
Consult U.S. Coast Pilot 3 for important supplemental information.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

CAUTION

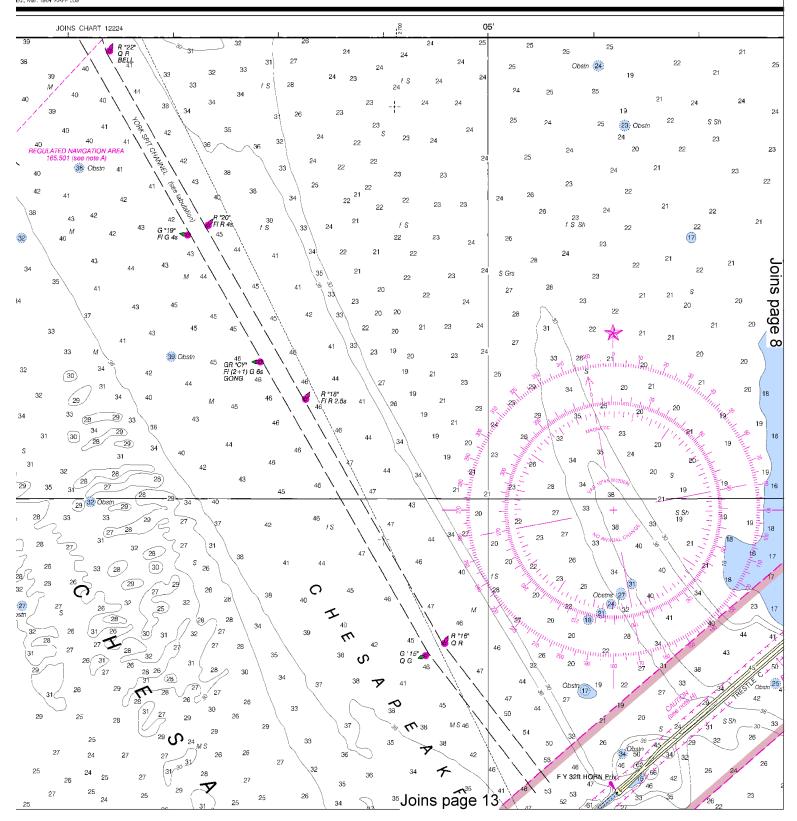
Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117. Radio direction-finder bearings to commercial broadcasting stations are subject to error and

should be used with caution.

Station positions are shown thus:

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(Accurate location) o(Approximate location)



HEIGHTS

Mercator Projection

Scale 1:40,000 at Lat. 37° 00' North American Datum of 1983 (World Geodetic System 1984)

SOUNDINGS IN FEET AT MEAN LOWER LOW WATER

Heights in feet above Mean High Water.

### SUPPLEMENTAL INFORMATION

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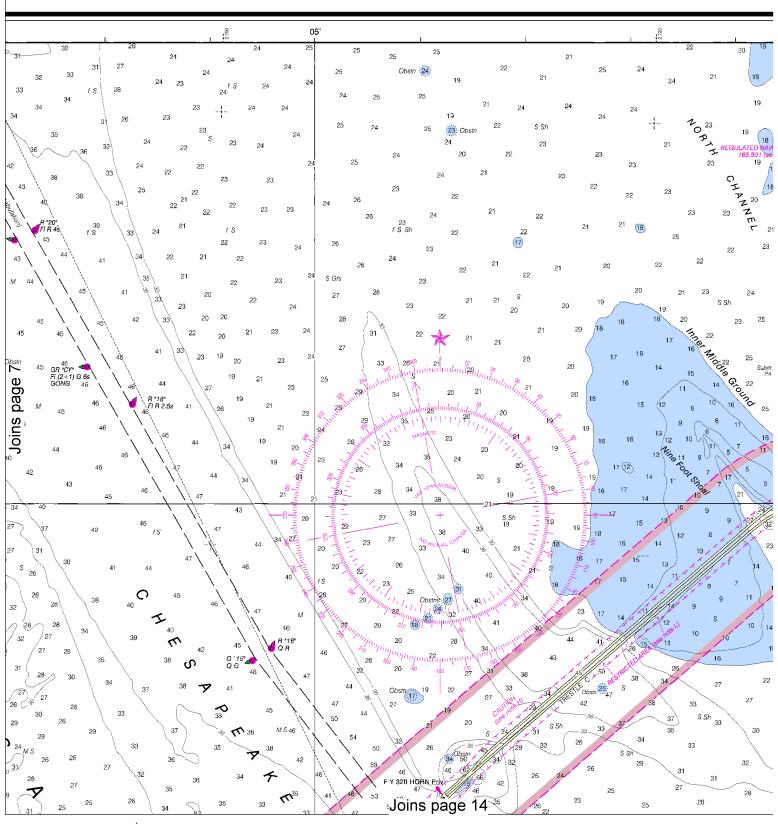
Geospatial-Intelligence Agency Publication 117. Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus: ⊙(Accurate location) o(Approximate location) AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

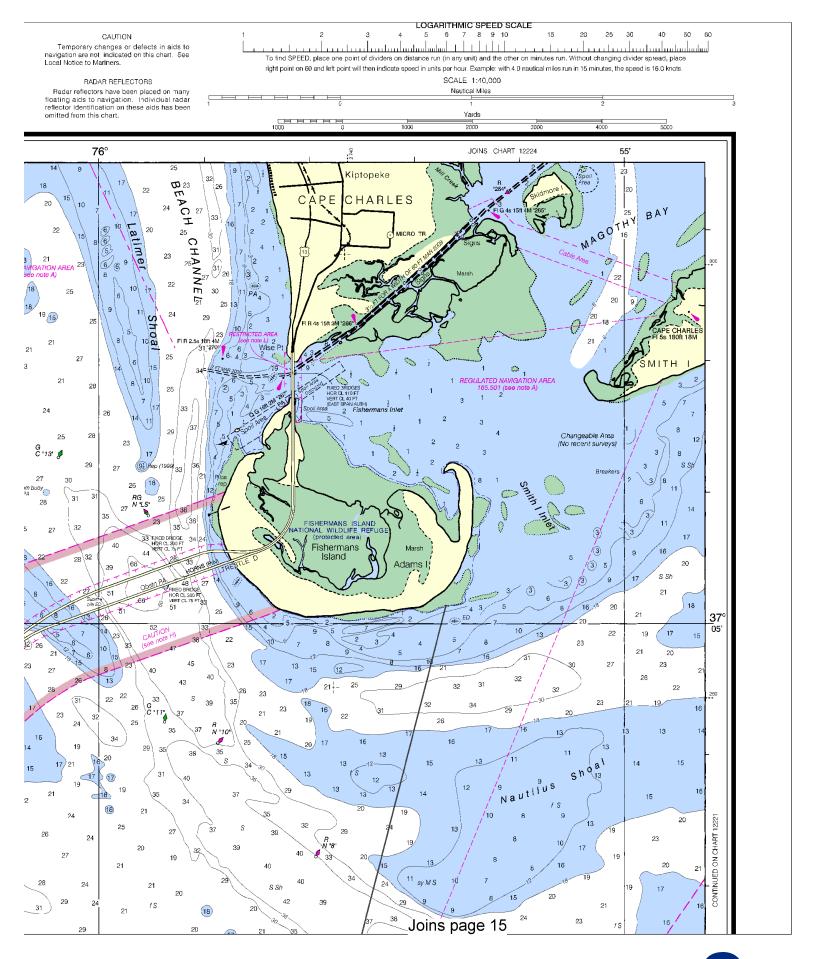
### RACING BUOYS

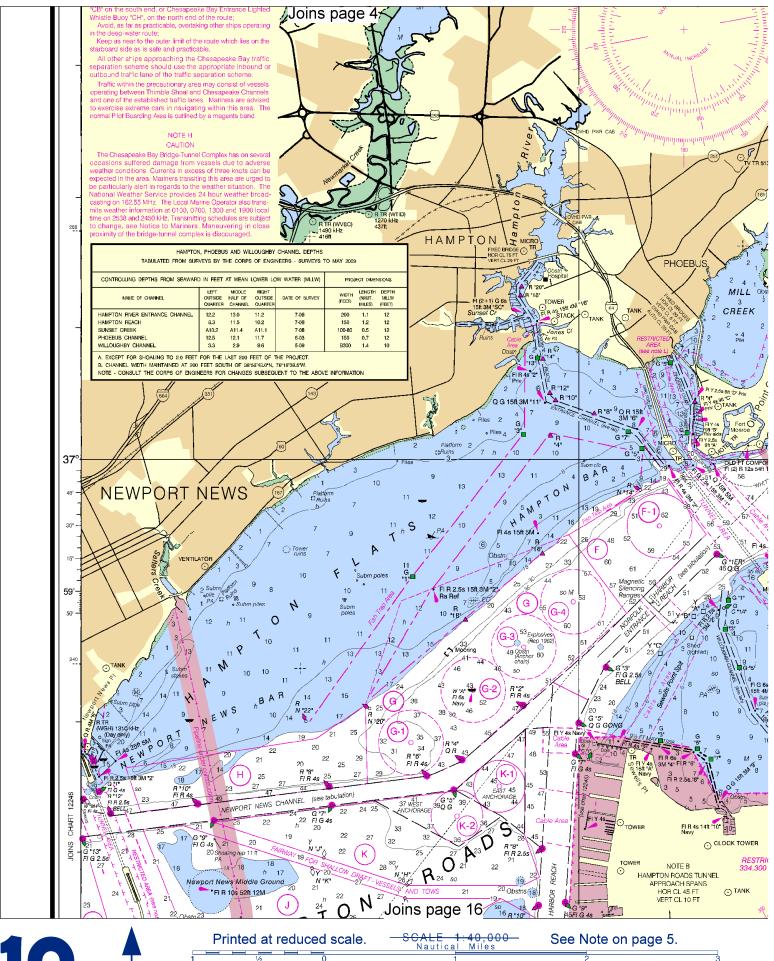
Racing buoys within the limits of this chart are not shown hereon. Information may be obtained from the U.S. Coast Guard District Offices as racing and other private buoys are not all listed in the U.S. Coast Guard Light List.



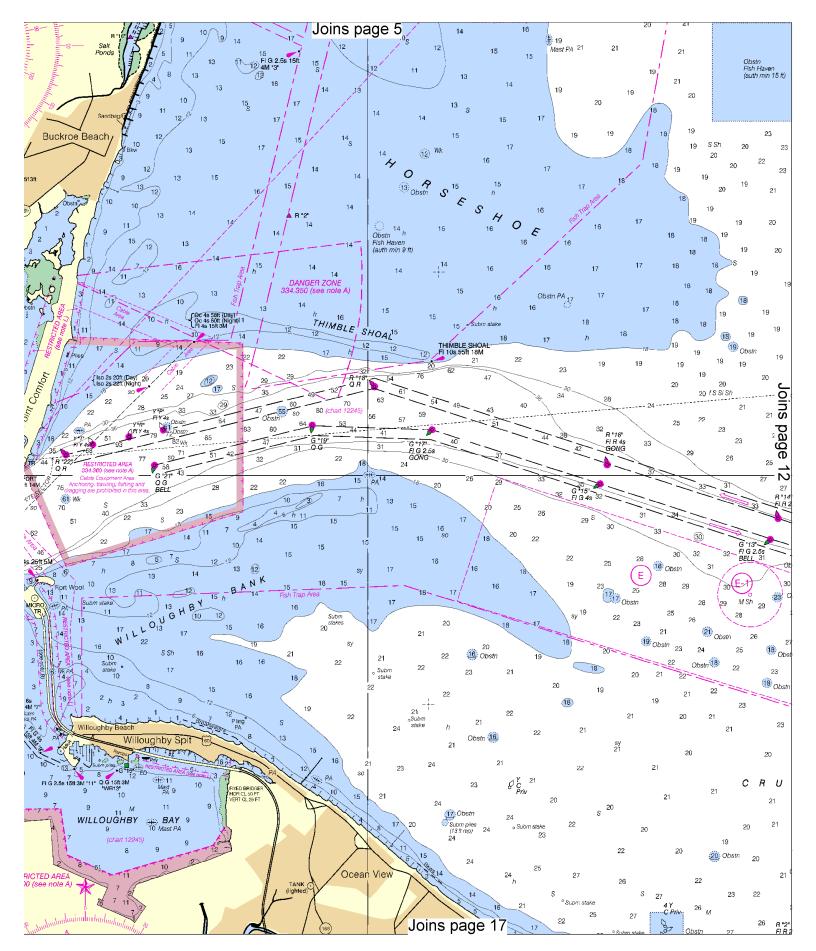


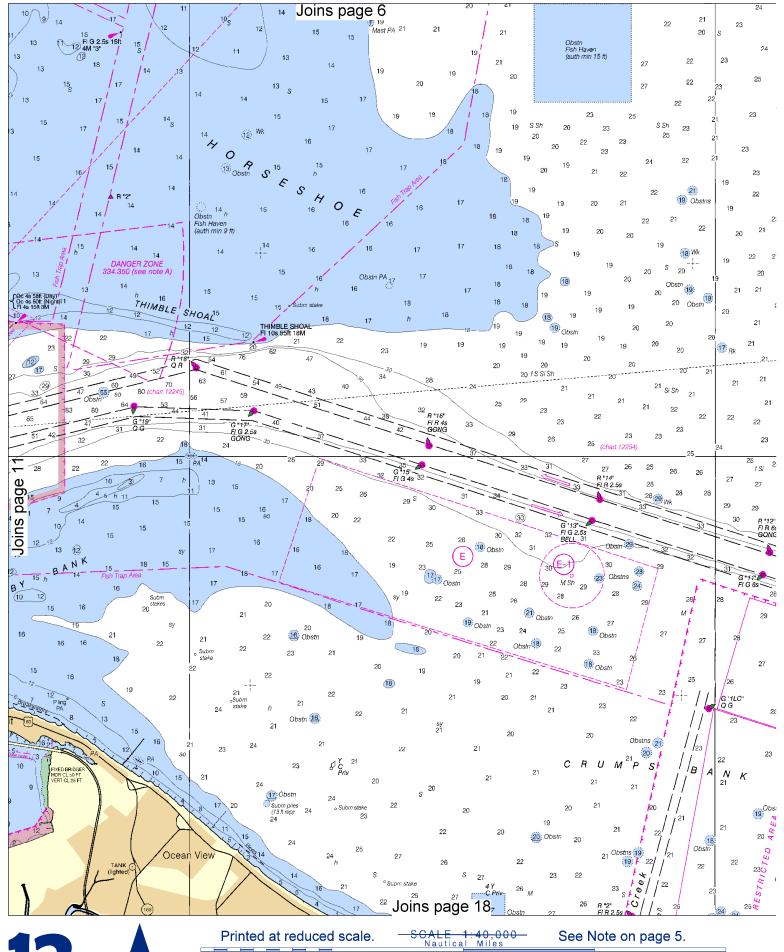




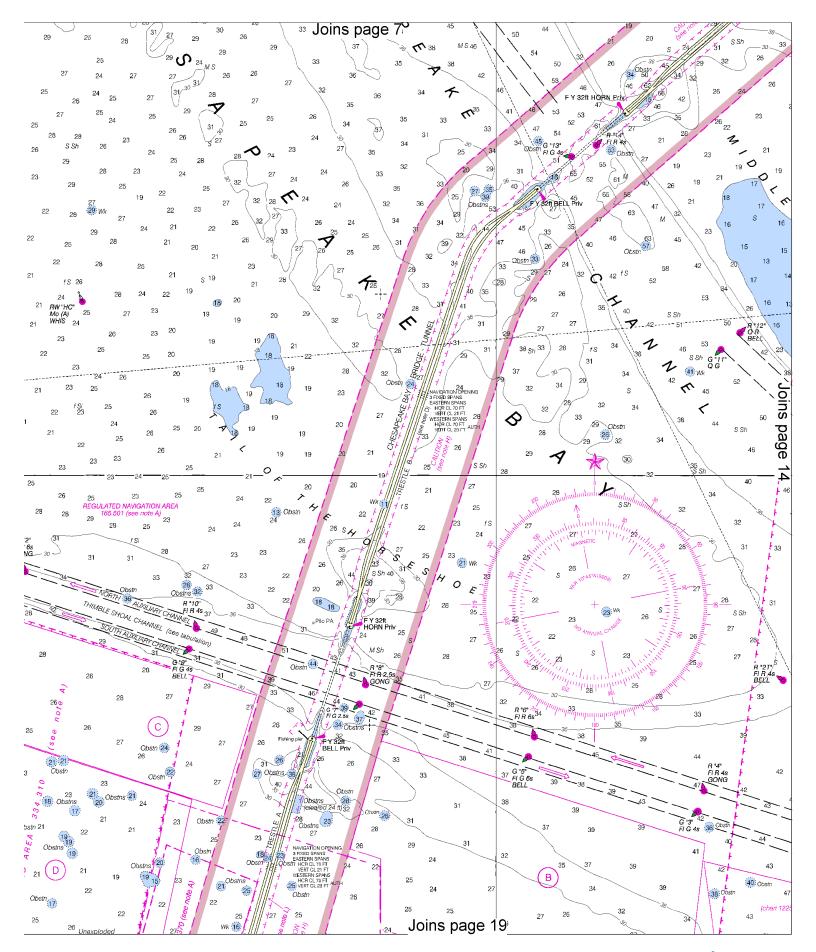


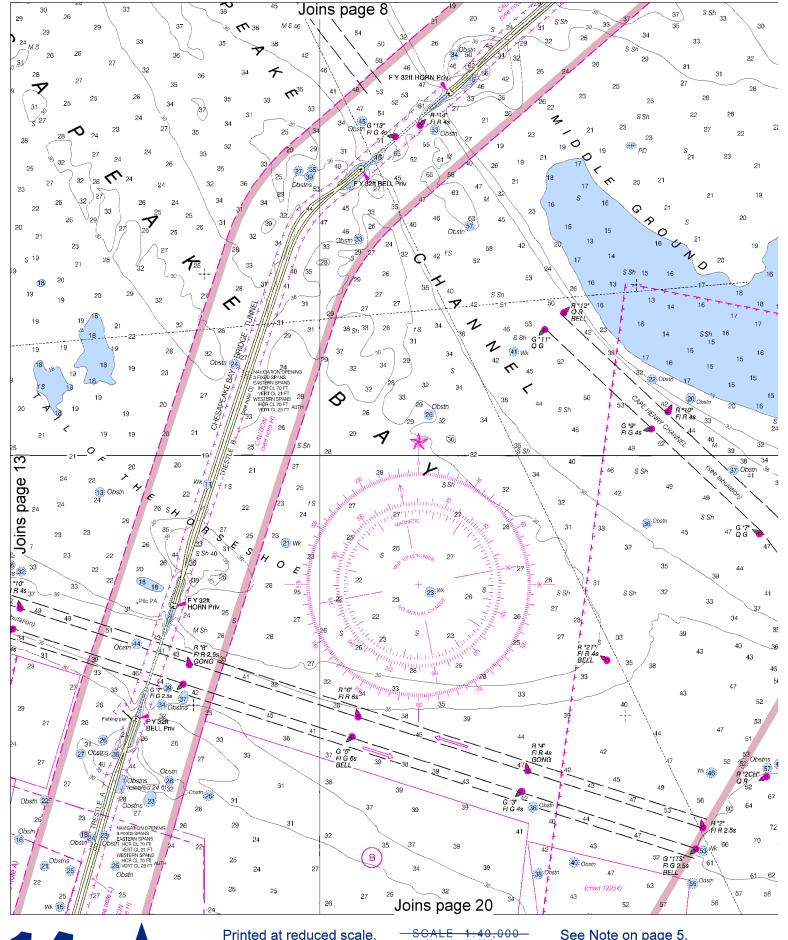


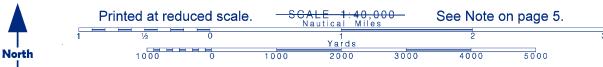


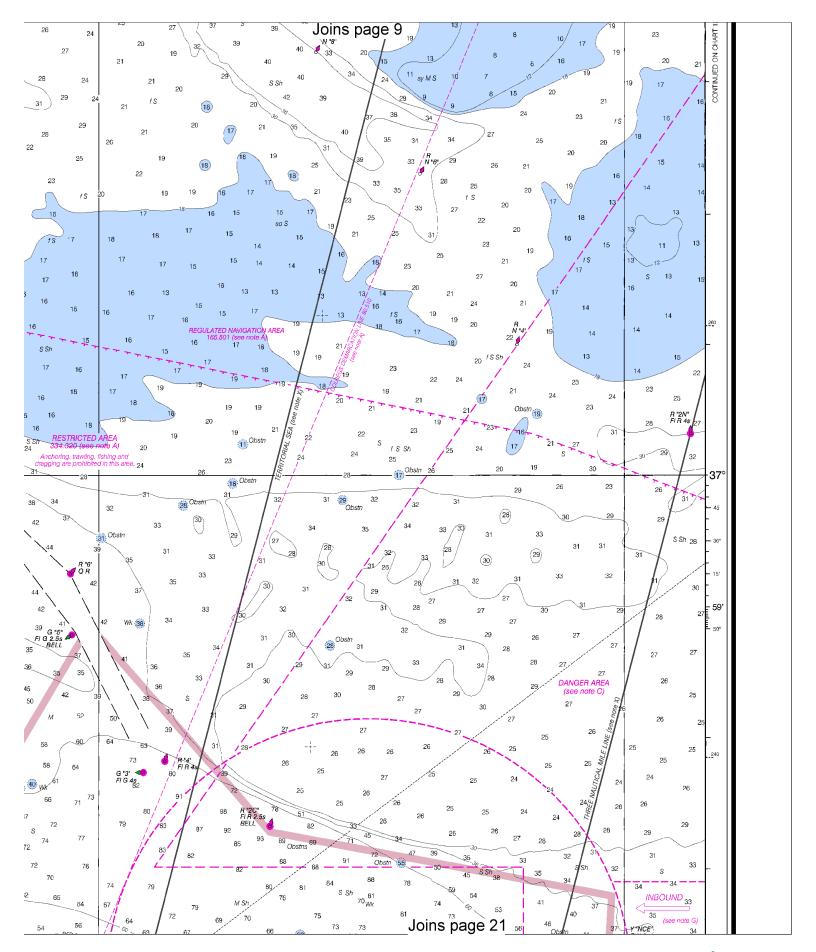


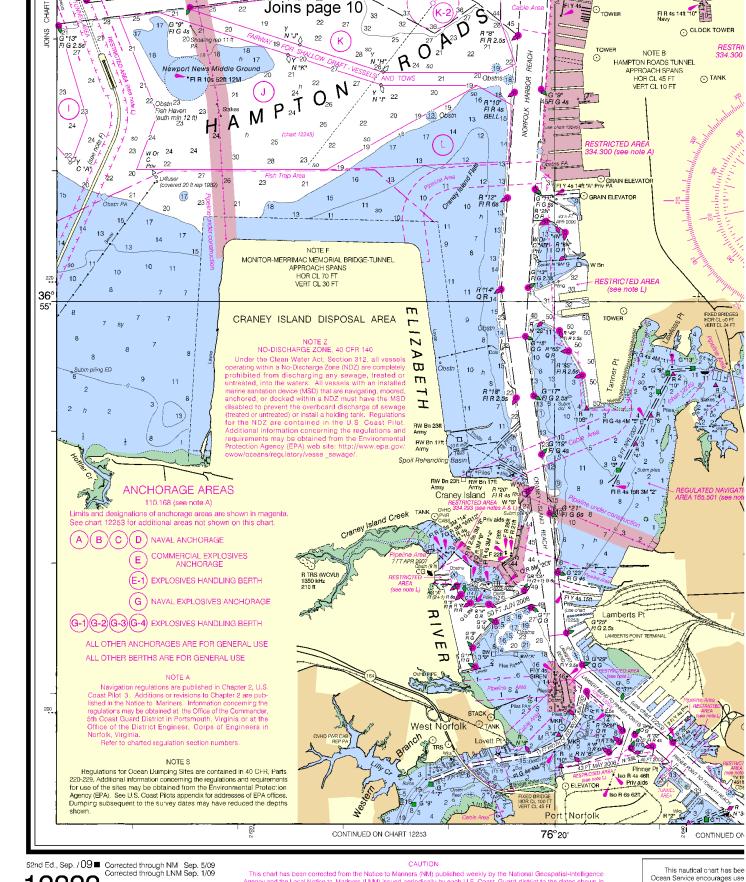












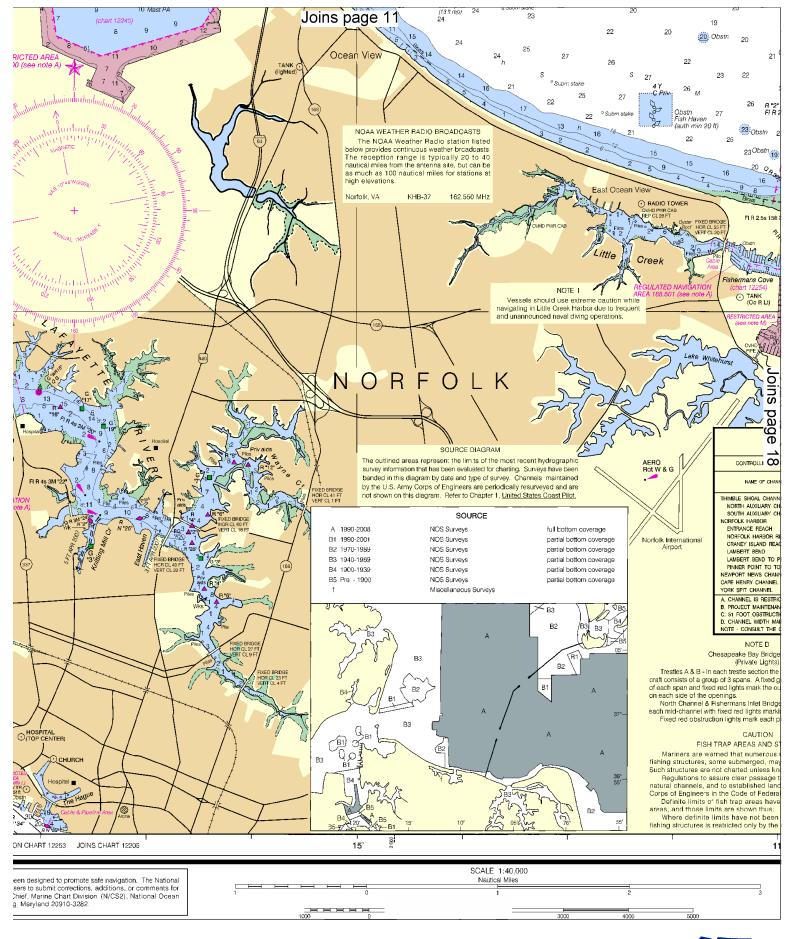
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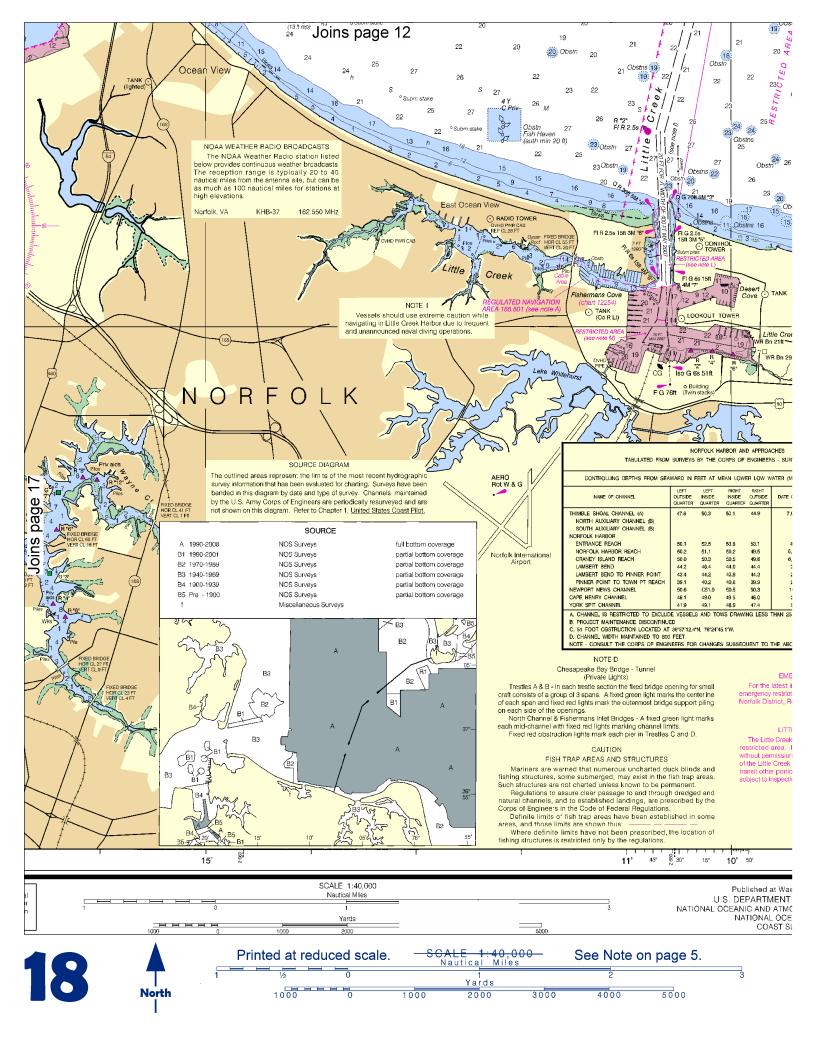
This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart up I after the dates shown in the lower left hand corner are available at nautical

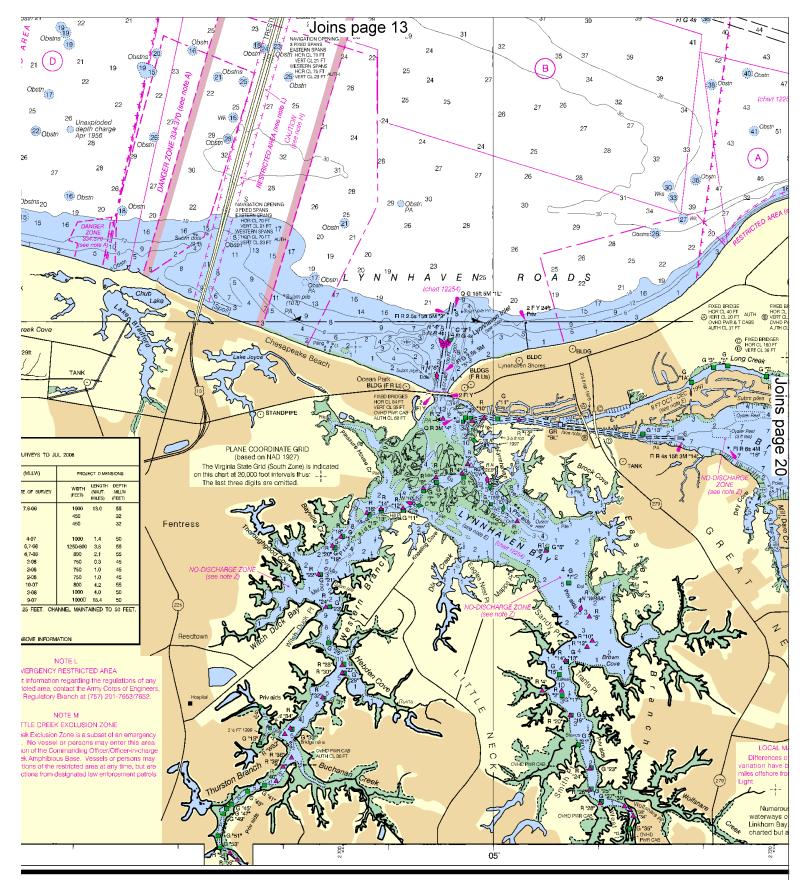
This nautical chart has bee Ocean Service encourages use improving this chart to the Chi Service, NOAA, Silver Spring,











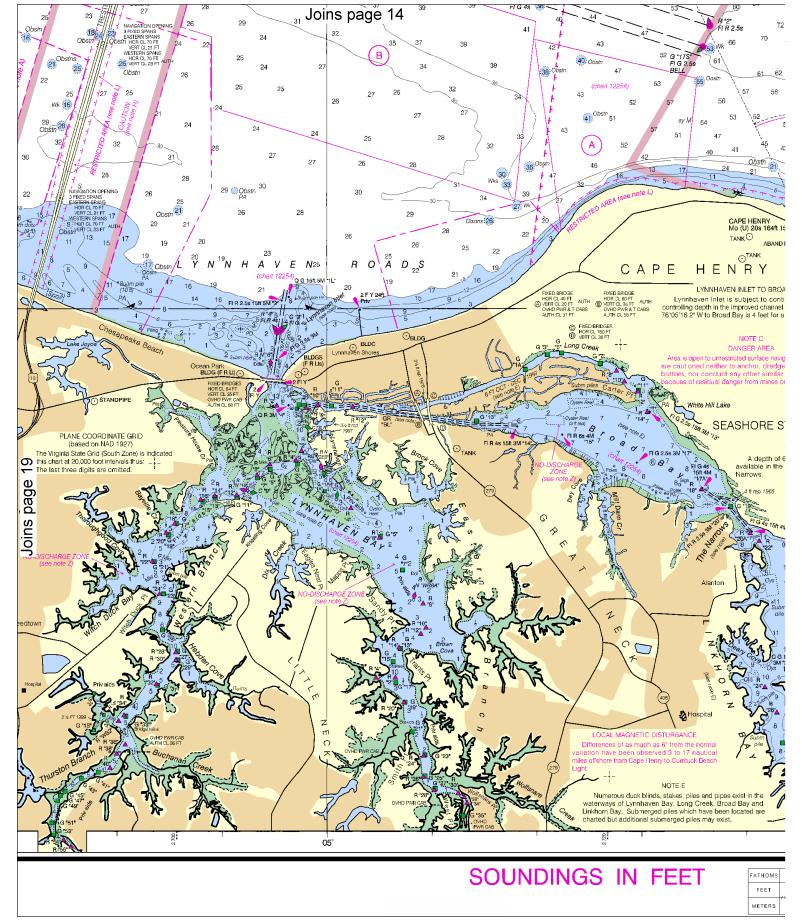
IT OF COMMERCE

JOSPHERIC ADMINISTRATION

ZEAN SERVICE

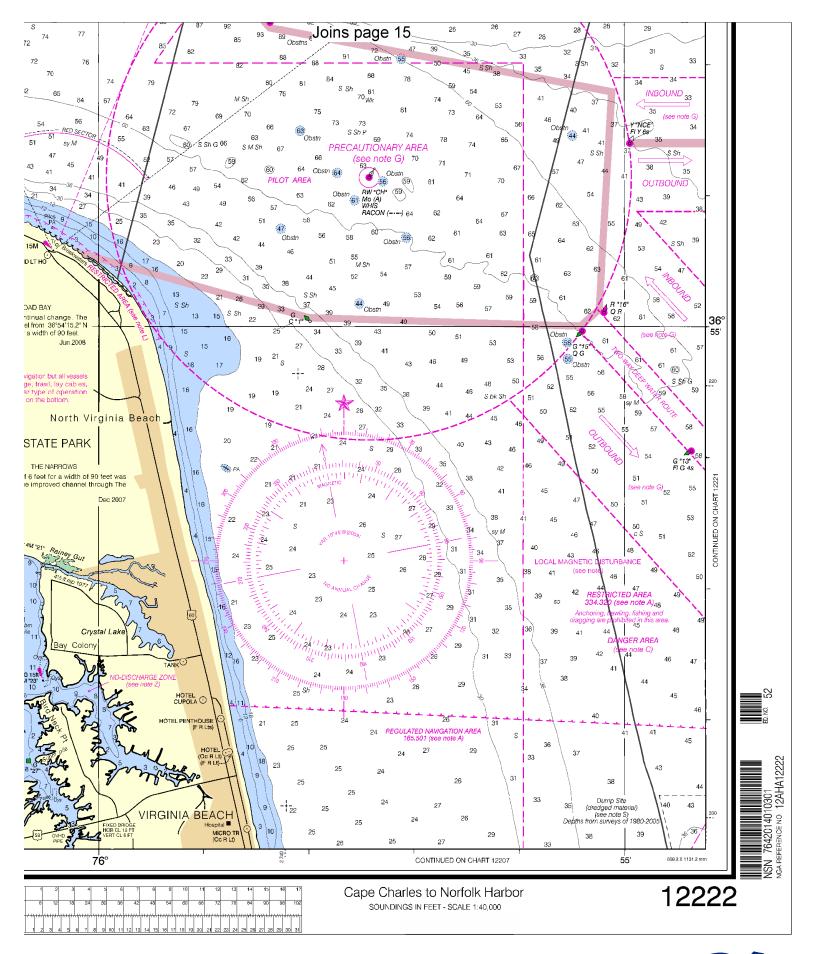
SURVEY

**SOUNDINGS** 









### **EMERGENCY INFORMATION**

### **VHF Marine Radio channels for use on the waterways:**

Channel 6 – Intership safety communications.

Channel 9 - Communications between boats and

Channel 13 – Navigation purposes at bridges, locks,

### Channel 16 – Emergency, distress and safety calls

to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22 – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here. Channels 68, 69, 71, 72 & 78 – Recreational boat channels.

### **Distress Call Procedures**

- 1. Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- 4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- Release transmit button.
- 7. Wait for 10 seconds If no response Repeat MAYDAY Call.

### HAVE ALL PERSONS PUT ON LIFE JACKETS!!

**Mobile Phones** – Call 911 for water rescue.

**Coast Guard Search & Rescue** – 800-418-7314/410-576-2525

> Coast Guard Cape Charles – 757-331-2000 **Coast Guard Milford Haven –** 804-725-2125/3732 **Coast Guard Portsmouth** - 757-483-8526/8527 Coast Guard Parramore Beach - 757-787-

Maryland Natural Resources Police - 410-260-8888 Virginia Marine Police – 800-541-4646

NOAA Weather Radio - 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

Getting and Giving Help – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

# NOAA CHARTING PUBLICATIONS

Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes, producing over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: www.NauticalCharts.NOAA.gov.

Official Electronic Navigational Charts® (ENCs) – ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at: www.NauticalCharts.NOAA.gov.

Official Raster Navigational Charts (RNCs) – RNCs are georeferenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at: www.NauticalCharts.NOAA.gov.

Official BookletCharts<sup>TM</sup> - BookletCharts<sup>TM</sup> are reduced scale NOAA charts printed in page-sized pieces. The "home edition" can be downloaded from NOAA for free and printed. The "professional edition", containing additional boating, safety, and educational edition is available for NOAA chart agents or over the Internet.

Official PocketCharts<sup>TM</sup> – PocketCharts<sup>TM</sup> are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot® – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from official NOAA chart agents or downloaded for free at: www.NauticalCharts.NOAA.gov.

Official Print-on-Demand Nautical Charts – These full-scale NOAA charts are updated each week by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print on Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

Official Chart No. 1, Nautical Chart Symbols – This reference publication depicts basic chart elements and explains nautical chart symbols and abbreviations. Download it for free at: www.NauticalCharts.NOAA.gov.

Coast Survey Navigation Managers – These ambassadors to the maritime community maintain a regional presence for NOAA and help identify the challenges facing marine transportation and boating. They are listed at http://nauticalcharts.noaa.gov/nsd/reps.htm.

www.TidesandCurrents.NOAA.gov, www.NOS.NOAA.gov.

